

# Green Slopes Conference

Waste Reduction and Recycling

By

Donald E. Maurer

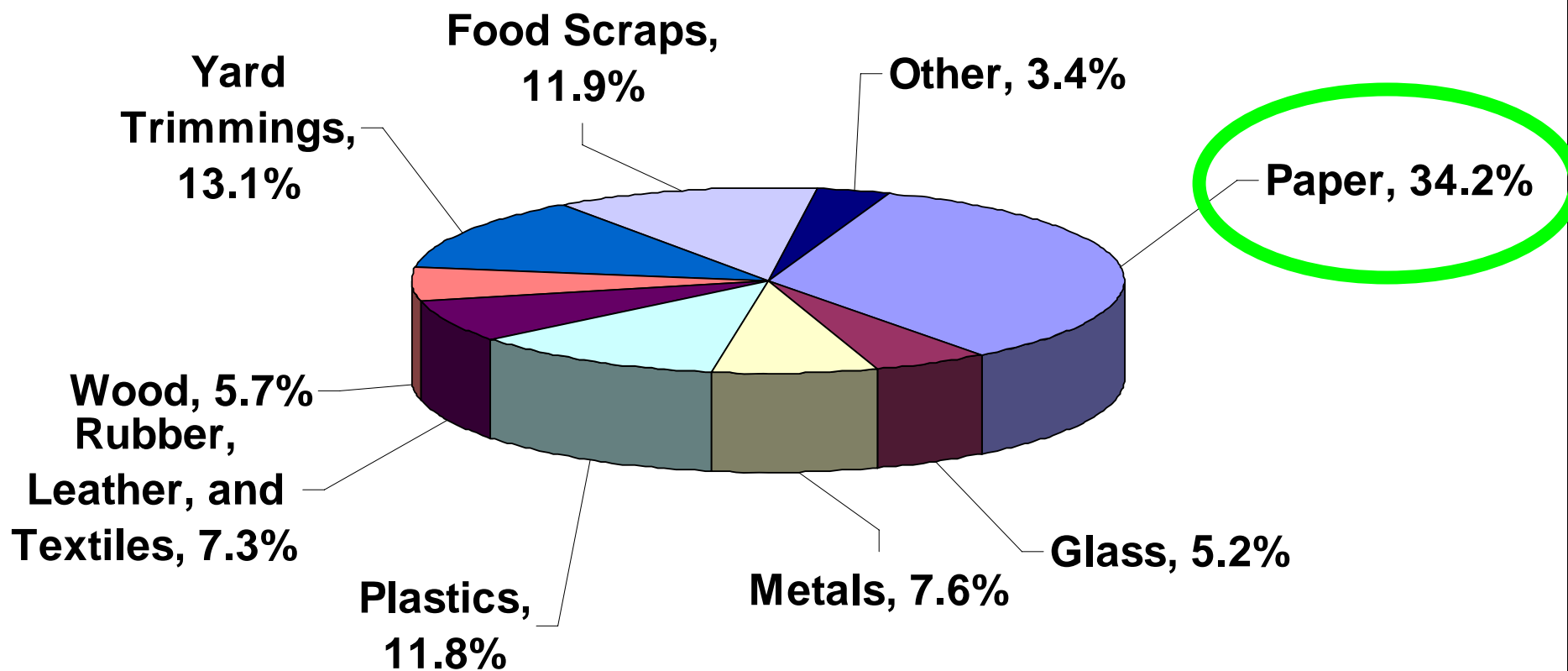
Supervisor,

Solid Waste Technical Assistance

# First, The Big Picture

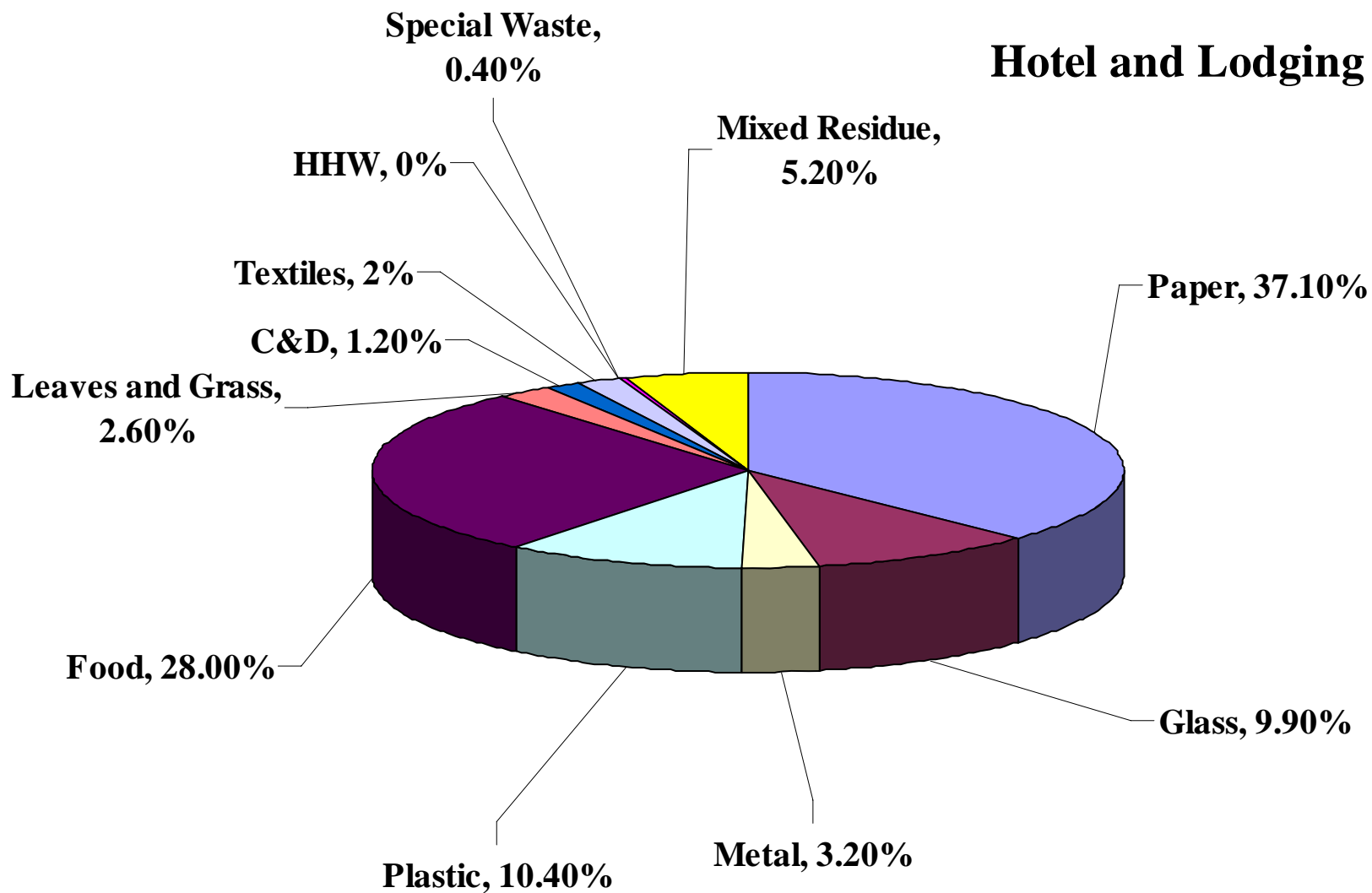


**What's in your garbage?**



•EPA Waste Characterization Report – 2005

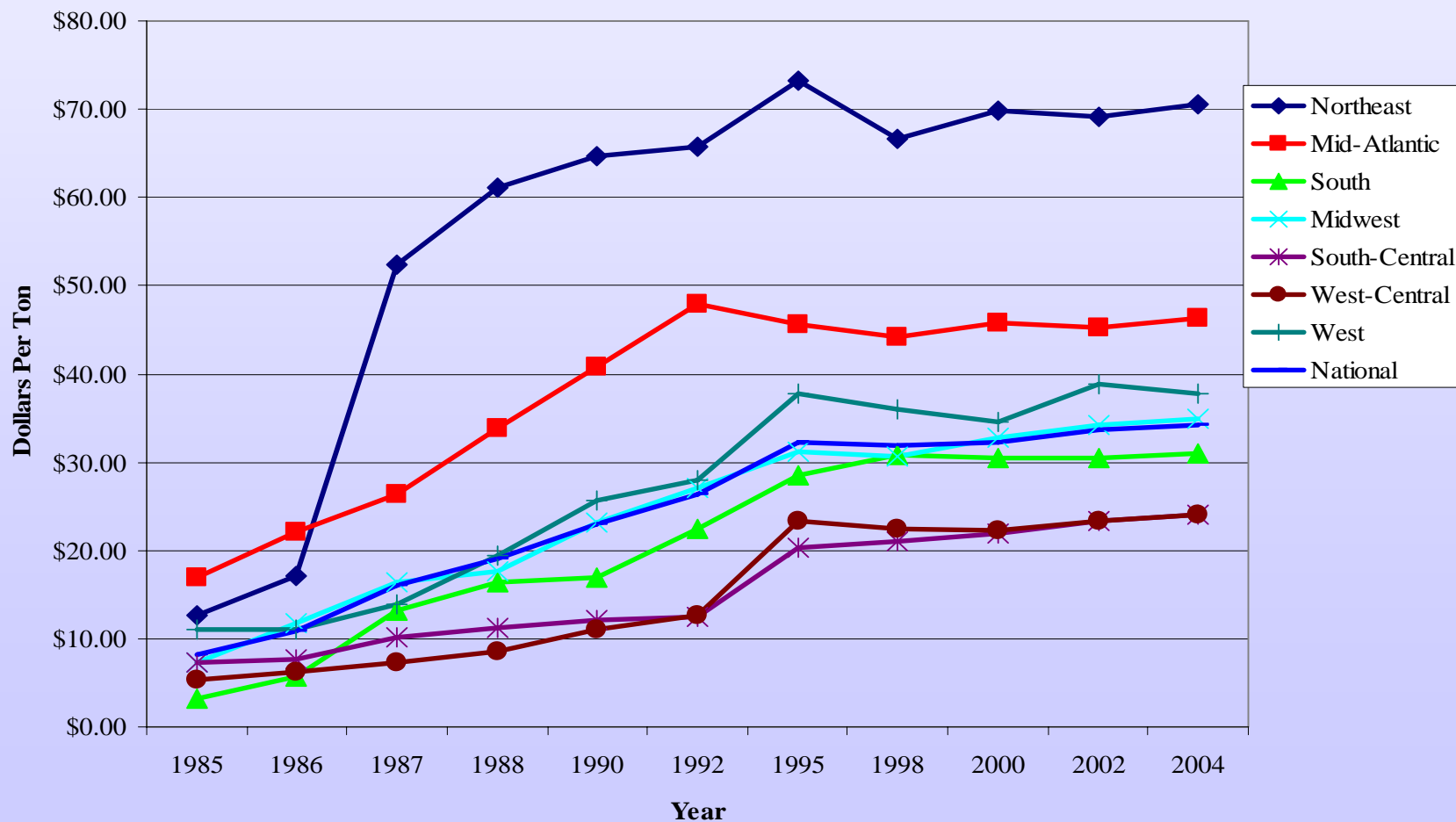
## Hotel and Lodging



# NH Per Capita

- NH per capita is 7.6 pounds per day as opposed to 4.5 nationally
- Why?
  - Because we had 50 million visitor days so our population is effectively 1.8 million, not 1.3 million
- Maine shows the same trend

Figure 6 Tipping Fees



# NH Estimated Industry Size

- NH Municipal = \$116 Million
- NH Commercial = \$116 Million
- NH C&D = \$25 Million
- NH Imports = \$30 Million
- Conservatively about \$290 Million!
- This is a big business



# So, what options do you have?

- Contract cost reductions are not realistic due to minimum competition and rising cost of fuel
- Cost avoidance is your only option
- The big items
  - Paper products
  - Food waste



# Paper Reduction Questions

- Does every room need a newspaper?
- Will your vendors backhaul cardboard?
- Do you offer recycling bins in rooms and public areas?
- Can you switch to reusable serviceware?

# Paper Recycling 101

Tissue, cheesy pizza boxes, and soiled plates and napkins  
Are not acceptable to most mills. But, the legendary Christmas  
Paper is acceptable. It just needs a separate container.

- Mail, office and school papers
- Magazines and catalogs
- Newspapers and inserts
- Phone books
- Shredded paper in closed paper bags
- Cardboard boxes
- Cereal boxes, cracker boxes, pasta boxes, cake mix boxes
- Shoe boxes, gift boxes & electronics boxes
- Boxes from toothpaste, medications and other toiletries



# Market Price Comparisons

<u>Mixed Paper</u>	18.50
+ <u>Mixed Office Paper</u>	85.50
+ <u>Old NewsPapers</u>	48.00
+ <u>BoxBoard</u>	45.00
+ <u>Old Corrugated Cardboard</u>	65.00
+ <u>Waxed Corrugated</u>	11.70
+ <u>Bleached Kraft</u>	285.00
+ <u>LPBK Lightly Printed Bleached Kraft</u>	228.00
+ <u>PBK Printed Bleached Kraft</u>	114.00
+ <u>Mixed Envelope (new)</u>	87.40
+ <u>White Envelope</u>	180.50
+ <u>Plastic Windowed White Envelope</u>	66.50
+ <u>Colored Envelope</u>	108.30
+ <u>Kraft Envelope</u>	169.00
+ <u>White Ledger</u>	152.00
+ <u>Manifold White Ledger</u>	114.00

# Market Price Comparisons

<u>Hard White</u>	171.00
<u>Mixed Tab Cards</u>	106.40
<u>Manila Tab Cards</u>	144.40
<u>Colored Tab Cards</u>	91.20
<u>Manila File Folder Stock</u>	102.60
<u>Soft White</u>	159.60
<u>Groundwood Fiber</u>	13.20
<u>Magazines</u>	10.80
<u>Magazines with HotMelt</u>	5.40
<u>Books &amp; Book Stock</u>	66.50
<u>Waxed Cup Stock</u>	38.00

# Composting

- Leaf and Yard Waste
  - Simple and easy
  - Just make a pile and turn it over
  - Pallets make great bins
  - A mix of leaves and grass is best

# Earth Tub

- The Earth Tub is designed specifically for on-site composting of food-wastes. The Earth Tub is a fully enclosed composting vessel featuring power mixing, compost aeration, and biofiltration of all process air. This self-contained unit is ideal for composting at schools, universities, restaurants, hospitals and supermarkets.



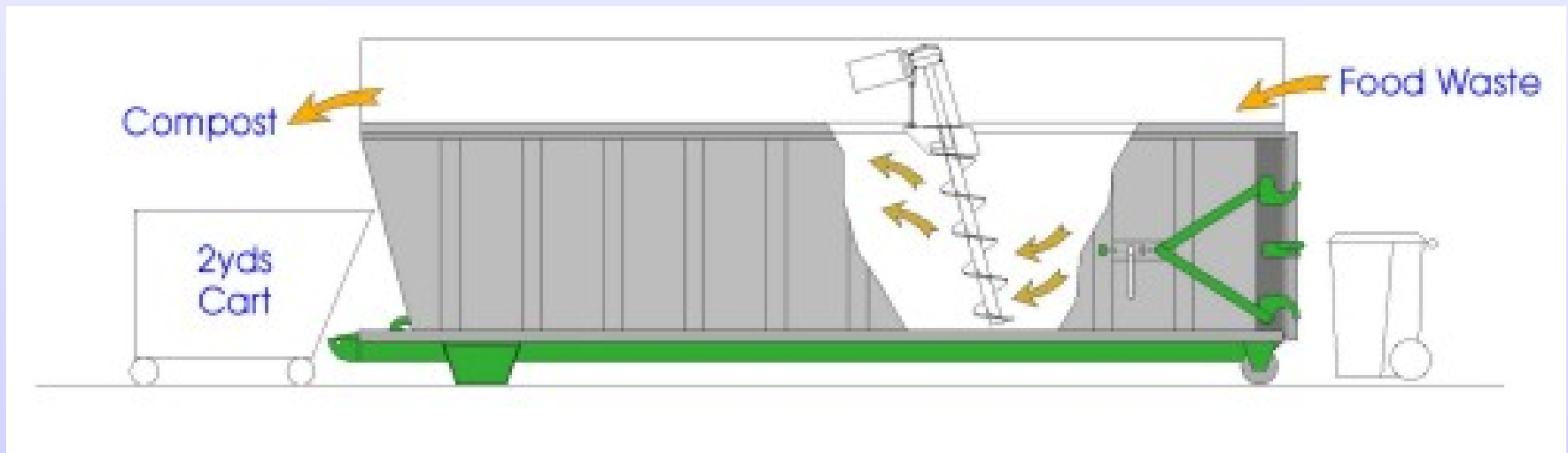




# Earth Tub

- Waste reduction
  - Heat generated in the Earth Tub rapidly breaks down the food scraps. The volume reduction is typically 70% or higher. After 3-4 weeks of active composting, open the discharge doors and the auger pushes the compost out as it rotates past the discharge door. The compost can be cured for 20-40 days for further stabilization.

# The Earth Bin



**0.5 to 1 ton per day**

# Other Materials

- Aluminum cans are now more than \$1 per pound baled!
- Plastic bottles are \$0.20 per pound baled
- It makes sense to provide recycling opportunities anywhere these are sold or used

# Thank you

For additional help, call:

Don Maurer

(603) 271-3713

or

[dmaurer@des.state.nh.us](mailto:dmaurer@des.state.nh.us)